RESEARCH MANAGEMENT DIVISION

PUBLICATIONS

OCTOBER 1983

RESEARCH MANAGEMENT DIVISION
Alberta Environment

RESEARCH MANAGEMENT DIVISION PUBLICATIONS

There are five series of reports published by the Research Management Division (RMD).

1. AOSERP WIDE DISTRIBUTION REPORTS

AOSERP reports have been published since the inception of the Alberta Oil Sands Environmental Research Program (AOSERP) in 1975. Although the program is now part of the Research Management Division, AOSERP reports continue to be published as a distinct series within the division. Wide distribution indicates that 200 copies of the report were printed.

2. RMD WIDE DISTRIBUTION REPORTS

RMD reports have been published since 1980. They constitute a separate series of reports within the division. The difference between AOSERP and RMD wide distribution reports lies in the geographic area of relevance. If the area studied is within the Alberta oil sands then the report is published in the AOSERP series; all other areas of the province come under the RMD designation. Reports published prior to 1982 do not always have this clear-cut differentiation. Again, wide distribution indicates that 200 copies of the report were printed.

3. LIMITED DISTRIBUTION REPORTS

These are generally interim reports or reports that, for other reasons, do not necessitate wide distribution. Twenty copies are printed and distributed to select libraries. RMD and AOSERP reports are both filed as Limited Distribution Reports.

4. OPEN FILE REPORTS

Open File reports are, for various reasons, not considered appropriate for wide or limited distribution. They remain unedited; ten copies are printed and distributed to select libraries and to a quick-printing house in Edmonton. RMD and AOSERP reports are both filed as Open File Reports.

5. RESEARCH SECRETARIAT REPORTS

These reports ceased to be published when the Research Management Division was formed in 1980. Some Research Secretariat reports are still available for distribution, but the series is essentially non-existent.

COLOUR CODES

The five series of reports are listed separately and colour coded.

Series	Colour
AOSERP Wide Distribution Reports	light pink
RMD Wide Distribution Reports	light blue
Limited Distribution Reports	light yellow
Open File Distribution Reports	light green
Research Secretariat Distribution Reports	dark blue

REPORT AVAILABILITY

As indicated in the foregoing general descriptions of publications, reports are produced in limited quantities. As a result, certain reports are out of print and are no longer available from the Research Management Division. Reports which are out of print are marked with an asterisk (*) in the report listings which follow.

To provide wider access to RMD publications and to ensure that out-of-print reports are accessible, the Publications Office has selected a number of alternate sources for publications. These locations are given at the beginning of the listings for each report series. Please keep in mind that Open File Reports are available only from the libraries or from the quick-printing firm noted in the introduction to the Open File series.

Note that several of the libraries which hold RMD publications are connected with the inter-library loan system. Your library can provide you with information on obtaining reports through inter-library loan.

REQUESTING REPORTS

Researchers may request reports which are in print from:

Research Management Division
Publications Office
14th Floor, Standard Life Centre
10405 - Jasper Avenue
Edmonton, Alberta
T5J 3N4
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There are no charges for Research Management Division reports.

NEW PUBLICATIONS BULLETIN

The Research Management Division publishes reports on a continuing basis. New reports are announced in a New Publications Bulletin which is issued monthly.

Except in special cases, RMD no longer automatically mails newly-released publications. Instead, such reports must be ordered from the Publications Office.

To receive the bulletin and, therefore, be notified of new reports please detach the bottom portion of this page and mail it to:

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AOSERP WIDE DISTRIBUTION REPORTS

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Calgary, Alberta
T2N 1N4

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Cameron Library
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216 Legislative Building
Edmonton, Alberta
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AOSERP Wide Distribution Reports can be purchased on microfiche or paper from the Microlog: Canadian Government Publications index service provided by:

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The following list gives Microlog order numbers for most reports in this series. These numbers must be quoted when ordering from Micromedia.

AOSERP WIDE DISTRIBUTION REPORTS

Report	Project	Microlog Number	References
* 1	PM	76-0983	Alberta Oil Sands Environmental Research Program. 1976. First annual report, 1975. Alberta Oil Sands Environmental Research Program. AOSERP Report 1. 58 pp.
2	AF 4.1.1	77-0149	Kristensen, J., B.S. Ott, and A.D. Sekerak. 1976. Walleye and goldeye fisheries investigations in the Peace-Athabasca Delta--1975. Prep. for the Alberta Oil Sands Environmental Research Program by LGL Ltd., Environmental Research Associates. AOSERP Report 2. 103 pp.
3	HE 1.1.1	77-0149	McVey, W.W. 1976. Structure of a traditional baseline data system. Prep. for the Alberta Oil Sands Environmental Research Program by the University of Alberta, Population Research Laboratory. AOSERP Report 3. 26 + 266 pp.
* 4	VE 2.2	77-0555	Stringer, P.W. 1976. A preliminary vegetation survey of the Alberta Oil Sands Environmental Research Program study area. Prep. for the Alberta Oil Sands Environmental Research Program by Intraverda Plant Systems Ltd. AOSERP Report 4. 108 pp.
* 5	HY 3.1	77-0242	Strosher, M.T. and E. Peake. 1976. The evaluation of wastewaters from an oil sand extraction plant. Prep. for the Alberta Oil Sands Environmental Research Program by the University of Calgary, Environmental Sciences Centre (Kananaskis). AOSERP Report 5. 103 pp.
* 6	PM	77-0555	Patterson, R. and A.M. Lansdown. 1976. Housing for the north--the stackwall system; construction report--Mildred Lake tank and pump house. Prep. for the Alberta Oil Sands Environmental Research Program by the University of Manitoba, Faculty of Engineering, Northern Housing Committee. AOSERP Report 6. 36 pp.
* 7	AF 3.1.1	77-0149	Jantzie, T.D. 1977. A synopsis of the physical and biological limnology and fishery programs within the Alberta oil sands area. Prep. for the Alberta Oil Sands

* Indicates out-of-print report.

			Environmental Research Program by Renewable Resources Consulting Services Ltd. AOSERP Report 7. 73 pp.
8	AF 1.2.1	77-0554	Machniak, K. 1977. The impact of saline waters upon freshwater biota (a literature review and bibliography). Prep. for the Alberta Oil Sands Environmental Research Program by Aquatic Environments Ltd. AOSERP Report 8. 258 pp.
* 9	ME 3.3	77-0555	Croft, B.R., A. Lamb, and R.N. Dawson. 1977. A preliminary investigation into the magnitude of fog occurrence and associated problems in the oil sands area. Prep. for the Alberta Oil Sands Environmental Research Program by Stanley Associates Engineering Ltd. AOSERP Report 9. 87 pp.
10	HE 2.1	80-2755	Millar, J.F.V. 1977. Development of a research design related to archaeological studies in the Athabasca Oil Sands area. Prep. for the Alberta Oil Sands Environmental Research Program by the University of Saskatchewan. AOSERP Report 10. 69 pp.
* 11	AF 2.2.1	77-0555	Flannagan, J.F. 1977. Life cycles of some common aquatic insects of the Athabasca River, Alberta. Prep. for the Alberta Oil Sands Environmental Research Program by Fisheries and Environment Canada, Freshwater Institute. AOSERP Report 11. 20 pp.
* 12	ME 1.7	77-0481	Mercer, J.M. and R.B. Charlton. 1977. Very high resolution meteorological satellite study of oil sands weather: "a feasibility study". Prep. for the Alberta Oil Sands Environmental Research Program by the University of Alberta, Department of Geography. AOSERP Report 12. 44 pp.
* 13	ME 2.3.1	77-0553	Davison, D.S., C.J. Fortems, and K.L. Grandia. 1977. Plume dispersion measurements from an oil sands extraction plant, March 1976. Prep. for the Alberta Oil Sands Environmental Research Program by Intera Environmental Consultants Ltd. AOSERP Report 13. 195 pp.
14			No report published.
* 15	ME 3.4	80-2759	Denison, P.J. 1977. A climatology of low-level air trajectories in the Alberta oil sands area. Prep. for the Alberta Oil

			Sands Environmental Research Program by Acres Consulting Services. AOSERP Report 15. 118 pp.
* 16	ME 1.6	80-2760	Barge, B.L., R.G. Humphries, and S.L. Olson. 1977. The feasibility of a weather radar near Fort McMurray, Alberta. Prep. for the Alberta Oil Sands Environmental Research Program by Alberta Research Council, Atmospheric Sciences Division. AOSERP Report 16. 72 pp.
* 17	AF 2.1.1	80-2761	Lutz, A. and M. Hendzel. 1977. A survey of baseline levels of contaminants in aquatic biota of the AOSERP study area. Prep. for the Alberta Oil Sands Environmental Research Program by Fisheries and Environment Canada, Freshwater Institute. AOSERP Report 17. 51 pp.
* 18	HY 1.1	80-2148	Loeppky, K.D. and M.O. Spitzer. 1977. Interim compilation of stream gauging data to December 1976 for the Alberta Oil Sands Environmental Research Program. Prep. for the Alberta Oil Sands Environmental Research Program by Fisheries and Environment Canada, Water Survey Branch. AOSERP Report 18. 257 pp.
19	ME 4.1	80-2762	Walmsley, J.L. and D.L. Bagg. 1977. Calculations of annual averaged sulphur dioxide concentrations at ground level in the AOSERP study area. Prep. for the Alberta Oil Sands Environmental Research Program by Atmospheric Environment Service. AOSERP Report 19. 40 pp.
* 20	HY 3.1.1	80-2149	Strosher, M.T. and E. Peake. 1978. Characterization of organic constituents in waters and wastewaters of the Athabasca Oil Sands mining area. Prep. for the Alberta Oil Sands Environmental Program by the University of Calgary, Environmental Sciences Centre (Kananaskis). AOSERP Report 20. 71 pp.
* 21	PM	78-0045	Alberta Oil Sands Environmental Research Program. 1977. Second Annual Report, 1976-77. Alberta Oil Sands Environmental Research Program. AOSERP Report 21. 62 pp.
* 22	PM	80-0351	Smith, S.B., ed. 1979. Alberta Oil Sands Environmental Research Program interim report covering the period April 1975 to

				November 1978. Prep. by A.S. Mann, R.A. Hursey, R.T. Seidner, and B. Kasinska-Banas. AOSERP Report 22.
	23	AF 1.1.2	79-5438	Lake, W. and W. Rogers. 1979. Acute lethality of mine depressurization water to trout-perch and rainbow trout: Volume I. Prep. for the Alberta Oil Sands Environmental Research Program by Alberta Environment, Water Control Branch. AOSERP Report 23. 44 pp.
	24	ME 1.5.2 ME 3.5.1	79-5605	Fanaki, F., R. Mickle, M. Lusis, J. Kovalick, J. Markes, F. Froude, J. Arnold, A. Gallant, S. Melnichuk, D. Brymer, A. Gaudenzi, A. Moser, and D. Bagg. 1979. Air system winter field study in the AOSERP study area, February 1977. Prep. for the Alberta Oil Sands Environmental Research Program by Fisheries and Environment Canada, Atmospheric Environment Service. AOSERP Report 24. 182 pp.
*	25	ME 3.5.1	80-2763	Bottenheim, J.W. and O.P. Strausz. 1977. Review of pollutant transformation processes relevant to the Alberta oil sands area. Prep. for the Alberta Oil Sands Environmental Research Program by the University of Alberta, Hydrocarbon Research Centre. AOSERP Report 25. 166 pp.
*	26	AF 4.5.1	80-0777	Bond, W.A. and K. Machniak. 1977. Interim report on an intensive study of the fish fauna of the Muskeg River watershed of northeastern Alberta. Prep. for the Alberta Oil Sands Environmental Research Program by Fisheries and Environment Canada, Department of Fisheries. AOSERP Report 26. 137 pp.
*	27	ME 1.5.1	80-2150	Fanaki, F., compiler. 1978. Meteorology and air quality winter field study in the AOSERP study area, March 1976. Prep. for the Alberta Oil Sands Environmental Research Program by Fisheries and Environment Canada, Atmospheric Environment Service. AOSERP Report 27. 249 pp.
*	28	VE 2.1 LS 2.1	80-2151	Turchenek, L.W. and J.D. Lindsay. 1978. Interim report on a soils inventory in the Athabasca oil sands area. Prep. for the Alberta Oil Sands Environmental Research Program by Alberta Research Council, Soils Division. AOSERP Report 28. 100 pp.

29	ME 2.2	78-0883	Shelfentook, W. 1978. An inventory system for atmospheric emissions in the AOSERP study area. Prep. for the Alberta Oil Sands Environmental Research Program by SNC Tottrup Services Ltd. AOSERP Report 29. 58 pp.
* 30	ME 2.1	78-0883	Strosher, M.M. 1978. Ambient air quality in the AOSERP study area, 1977. Prep. for the Alberta Oil Sands Environmental Research Program by Alberta Environment, Pollution Control Division. AOSERP Report 30. 74 pp.
* 31	VE 2.3 LS 2.3	80-2152	Thompson, M.D., M.C. Wride, and M.E. Kirby. 1978. Ecological habitat mapping of the AOSERP study area: Phase I. Prep. for the Alberta Oil Sands Environmental Research Program by Intera Environmental Consultants Ltd. AOSERP Report 31. 176 pp.
32	PM	80-0286	Alberta Oil Sands Environmental Research Program. 1979. Third Annual Report, 1977-78. Alberta Oil Sands Environmental Research Program. AOSERP Report 32. 114 pp.
* 33	TF 1.2	79-0596	Nowlin, R.A. 1978. Relationships between habitats, forages, and carrying capacity of moose range in northern Alberta. Part I: moose preferences for habitat strata and forages. Prep. for the Alberta Oil Sands Environmental Research Program by Alberta Recreation, Parks and Wildlife, Fish and Wildlife Division. AOSERP Report 33. 63 pp.
* 34	HY 2.4	80-2153	Allan, R. and T. Jackson. 1978. Heavy metals in bottom sediments of the mainstem Athabasca River system in the AOSERP study area. Prep. for the Alberta Oil Sands Environmental Research Program by Fisheries and Environment Canada, Freshwater Institute. AOSERP Report 34. 72 pp.
* 35	AF 4.9.1	80-2154	Griffiths, W.H. and B.D. Walton. 1978. The effects of sedimentation on the aquatic biota. Prep. for the Alberta Oil Sands Environmental Research Program by Renewable Resources Consulting Services Ltd. AOSERP Report 35. 86 pp.
36	AF 4.8.1	79-0956	Jones, M.L., G.J. Mann, and P.J. McCart. 1978. Fall fisheries investigations in the Athabasca and Clearwater rivers upstream of Fort McMurray: Volume 1. Prep. for the

Alberta Oil Sands Environmental Research Program by Aquatic Environments Ltd. AOSERP Report 36. 71 pp.

* 37 HE 2.2.2 80-2155 Van Dyke, E.W. and C. Loberg. 1978. Community studies: Fort McMuray, Anzac, Fort MacKay. Prep. for the Alberta Oil Sands Environmental Research Program by Applied Research Associates Ltd. AOSERP Report 37. 195 pp.

* 38 VE 7.1.1 80-2156 Green, J.E. 1979. Techniques for the control of small mammal damage to plants: a review. Prep. for the Alberta Oil Sands Environmental Research Program by LGL Ltd., Environmental Research Associates. AOSERP Report 38. 111 pp.

* 39 ME 1.0 79-5330 Longley, R.W. and B. Janz. 1979. The climatology of the Alberta Oil Sands Environmental Research Program study area. Prep. for the Alberta Oil Sands Environmental Research program by Fisheries and Environment Canada, Atmospheric Environment Service. AOSERP Report 39. 102 pp.

40 WS 3.3 79-5906 Beltaos, S. 1979. Mixing characteristics of the Athabasca River below Fort McMurray--winter conditions. Prep. for the Alberta Oil Sands Environmental Research Program by Alberta Research Council, Transportation and Surface Water Engineering Division. AOSERP Report 40. 110 pp.

41 AF 3.5.1 80-2157 Sprague, J.B., D.A. Holdway, and D. Stendahl. 1978. Acute and chronic toxicity of vanadium to fish. Prep. for the Alberta Oil Sands Environmental Research Program by the University of Guelph. AOSERP Report 41. 92 pp.

42 TF 1.1.4 79-0598 Todd, A. 1978. Analysis of fur production records for registered traplines in the AOSERP study area, 1970-75. Prep. for the Alberta Oil Sands Environmental Research Program by Alberta Recreation, Parks, and Wildlife. AOSERP Report 42. 17 pp.

* 43 TF 6.1 79-0597 Phillips, W., D. DePape, and L. Ewanyk. 1979. A socioeconomic evaluation of the recreational use of fish and wildlife resources in Alberta, with particular reference to the AOSERP study area. Volume 1:

summary and conclusions. Prep. for the Alberta Oil Sands Environmental Research Program by the University of Alberta, Department of Rural Economy. AOSERP Report 43. 116 pp.

* 44	VE 3.1	80-2158	Malhotra, S.S. and P.A. Addison. 1979. Interim report on symptomology and threshold levels of air pollutant injury to vegetation, 1975 to 1978. Prep. for the Alberta Oil Sands Environmental Research Program by Canadian Forestry Service, Northern Forest Research Centre. AOSERP Report 44. 13 pp.
* 45	VE 3.3	80-2159	Malhotra, S.S. 1979. Interim report on physiological and mechanisms of air-borne pollutant injury to vegetation, 1975 to 1978. Prep. for the Alberta Oil Sands Environmental Research Program by Canadian Forestry Service, Northern Forest Research Centre. AOSERP Report 45. 38 pp.
* 46	VE 3.4	80-2160	Addison, P.A. and J. Baker. 1979. Interim report on ecological benchmarking and biomonitoring for detection of air-borne pollutant effects on vegetation and soils, 1975 to 1978. Prep. for the Alberta Oil Sands Environmental Research Program by Canadian Forestry Service, Northern Forest Research Centre. AOSERP Report 46. 40 pp.
47	TF 1.1.1	79-5443	Cook, R.D. and J.O. Jacobson. 1979. A visibility bias model for aerial surveys of moose on the AOSERP study area. Prep. for the Alberta Oil Sands Environmental Research Program by Interdisciplinary Systems Ltd. AOSERP Report 47. 28 pp.
* 48	HG 1.1	79-5439	Schwartz, F.W. 1979. Interim report on a hydrogeological investigation of the Muskeg River basin, Alberta. Prep. for the Alberta Oil Sands Environmental Research Program by the University of Alberta, Department of Geology. AOSERP Report 48. 104 pp.
* 49	WS 1.3.3	80-0772	Hartland-Rowe, R.C.B., R.W. Davies, M. McElhone, and R. Crowther. 1979. The ecology of macrobenthic invertebrate communities in Hartley Crek, northeastern Alberta. Prep. for the Alberta Oil Sands Environmental Research Program by the University of Calgary, Department of Biology. AOSERP Report 49. 144 pp.

* 50	ME 3.6	79-5440	Denison, P.J., T.A. McMahon, and J.R. Kramer. 1979. Literature review on pollution deposition processes. Prep. for the Alberta Oil Sands Environmental Research Program and Syncrude Canada Ltd. by Acres Consulting Services Limited and Earth Science Consultants Inc. AOSERP Report 50. 264 pp.
51	HY 1.3	79-5441	Warner, L.S. and M.O. Spitzer. 1979. Interim compilation of 1976 suspended sediment data for the AOSERP study area. Prep. for the Alberta Oil Sands Environmental Research Program by Environment Canada, Water Survey of Canada. AOSERP Report 51. 59 pp.
52	ME 2.3.2	80-2161	Davison, D.S. and K.L. Grandia. 1979. Plume dispersion measurements from an oil sands extraction plant, June 1977. Prep. for the Alberta Oil Sands Environmental Research Program by Intera Environmental Consultants Ltd. AOSERP Report 52. 209 pp.
53	HY 3.1.2	79-5603	Strosher, M.T. and E. Peake. 1979. Baseline states of organic constituents in the Athabasca River system upstream of Fort McMurray. Prep. for the Alberta Oil Sands Environmental Research Program by the University of Calgary, Environmental Sciences Centre (Kananaskis). AOSERP Report 53. 71 pp.
* 54	WS 2.3	79-5608	Nix, P.G., J.W. Costerton, R. Ventullo, and R.T. Coutts. 1979. A preliminary study of chemical and microbial characteristics of the Athabasca River in the Athabasca Oil Sands area in northeastern Alberta. Prep. for the Alberta Oil Sands Environmental Research Program by Chemical and Geological Laboratories Ltd., Microbios Ltd., and Xenotox Services Ltd. AOSERP Report 54. 135 pp.
55	HY 2.6	79-5442	Costerton, J. and G.G. Geesey. 1979. Microbial populations in the Athabasca River. Prep. for the Alberta Oil Sands Environmental Research Program by the University of Calgary, Department of Biology. AOSERP Report 55. 65 pp.
* 56	AF 3.2.1	79-5607	Giles, M.A., J.F. Klaverkamp, and S.G. Lawrence. 1979. The acute toxicity of saline groundwater and of vanadium to fish

			and aquatic invertebrates. Prep. for the Alberta Oil Sands Environmental Research Program by Fisheries and Environment Canada, Freshwater Institute. AOSERP Report 56. 216 pp.
* 57	LS 2.3.1	80-2162	Thompson, M.D. 1979. Ecological habitat mapping of the AOSERP study area (supplement): Phase I. Prep. for the Alberta Oil Sands Environmental Research Program by Intera Environmental Consultants Ltd. AOSERP Report 57. 45 pp.
58	AF 2.0.2	80-0773	Lock, M.A. and R.R. Wallace. 1979. Interim report on ecological studies on the lower trophic levels of muskeg rivers within the Alberta Oil Sands Program study area. Prep. for the Alberta Oil Sands Environmental Research Program by Fisheries and Environment Canada. AOSERP Report 58. 105 pp.
* 59	TF 3.1	79-5610	Gilbert, F.F., S.A. Brown, and M.E. Stoll. 1979. Semi-aquatic mammals: annotated bibliography. Prep. for the Alberta Oil Sands Environmental Research Program by the University of Guelph, Department of Zoology. AOSERP Report 59. 167 pp.
* 60	WS 1.1.1	79-5604	Neill, C.R. and B.J. Evans. 1979. Synthesis of surface water hydrology. Prep. for the Alberta Oil Sands Environmental Research Program by Northwest Hydraulic Consultants Ltd. AOSERP Report 60. 84 pp.
* 61	AF 4.5.2	80-0774	Machniak, K. and W.A. Bond. 1979. An intensive study of the fish fauna of the Steepbank River watershed of northeastern Alberta. Prep. for the Alberta Oil Sands Environmental Research Program by Fisheries and Environment Canada, Freshwater Institute. AOSERP Report 61. 196 pp.
62	TF 5.1	79-5606	Roberts, W., V. Lewin, and L. Brusnyk. 1979. Amphibians and reptiles in the AOSERP study area. Prep. for the Alberta Oil Sands Environmental Research Program by the University of Alberta, Museum of Zoology. AOSERP Report 62. 51 pp.
63	ME 3.8.3	80-2163	Davison, D.S. and E.D. Leavitt. 1979. Analysis of AOSERP plume sigma data. Prep. for the Alberta Oil Sands Environmental

			Research Program by Intera Environmental Consultants Ltd. AOSERP Report 63. 251 pp.
* 64	LS 21.6.1	80-3256	Thomson, D.C., D.M. Ealey, and K.H. McCourt. 1979. A review and assessment of the baseline data relevant to the impacts of oil sands developments on large mammals in the AOSERP study area. Prep. for the Alberta Oil Sands Environmental Research Program by McCourt Management Ltd. AOSERP Report 64. 155 pp.
65	LS 21.6.2		Penner, D.F., K.H. McCourt, and K.E. Smythe. 1979. A review and assessment of the baseline data relevant to the impacts of oil sands development on black bear in the AOSERP study area. Prep. for the Alberta Oil Sands Environmental Research Program by McCourt Management Ltd. AOSERP Report 65. 53 pp.
66	AS 4.3.2	80-0775	Reid, J.D., J.L. Walmsley, I.B. Findleton, and A.D. Christie. 1979. An assessment of the models LIRAQ and ADPIC for application to the Alberta oil sands area. Prep. for the Alberta Oil Sands Environmental Research Program by Atmospheric Environment Service. AOSERP Report 66. 95 pp.
* 67	WS 1.3.2	80-0776	Lock, M.A. and R.R. Wallace. 1979. Aquatic biological investigations of the Muskeg River watershed. Prep. for the Alberta Oil Sands Environmental Research Program by Fisheries and Environment Canada, Freshwater Institute. AOSERP Report 67. 29 pp.
68	AS 1.5.3	80-2164	Fanaki, F., R. Hoff, L. Barrie, R. Mickle, M. Lusis, K. Anlauf, A. Gallant, J. Kovalick, F. Froude, J. Markes, J. Arnold, S. Melnichuk, A. Moser, and D. Bagg. 1979. Air system summer field study in the AOSERP study area, June 1977. Prep. for the Alberta Oil Sands Environmental Research Program by Atmospheric Environment Service. AOSERP Report 68. 248 pp.
* 69	HS 40.1	80-2165	Deines, A., C. Littlejohn, and T. Hunt. 1979. Native employment patterns in Alberta's Athabasca oil sands region. Prep. for the Alberta Oil Sands Environmental Research Program by Canadian Institute for Research in the Behavioral and Social Sciences. AOSERP Report 69. 216 pp.

70	LS 28.1.2	80-0142	Ealey, D.M., S. Hannon, and G.J. Hilchie. 1979. An interim report on the insectivorous animals in the AOSERP study area. Prep. for the Alberta Oil Sands Environmental Research Program by McCourt Management Ltd. AOSERP Report 70. 294 pp.
* 71	HY 2.2	80-0144	Hesslein, R.H. 1979. Lake acidification potential in the Alberta Oil Sands Environmental Research Program study area. Prep. for the Alberta Oil Sands Environmental Research Program by Fisheries and Environment Canada, Freshwater Institute. AOSERP Report 71. 36 pp.
72	LS 7.1.2	80-2166	Green, J.E. 1979. The ecology of five major species of small mammals in the AOSERP study area: a review. Prep. for the Alberta Oil Sands Environmental Research Program by LGL Limited, Environmental Research Associates. AOSERP Report 72. 104 pp.
* 73	LS 23.2	80-3257	Searing, G.F. 1979. Distribution, abundance, and habitat associations of beavers, muskrats, mink, and river otters in the AOSERP study area, northeastern Alberta. Prep. for the Alberta Oil Sands Environmental Research Program by LGL Limited, Environmental Research Associates. AOSERP Report 73. 119 pp.
* 74	AS 4.5	80-0143	Angle, R.P. 1979. Air quality modelling and user needs. Prep. for the Alberta Oil Sands Environmental Research Program by Alberta Environment, Air Quality Control Branch. AOSERP Report 74. 34 pp.
75	WS 1.3.4	80-2633	Hickman, M., S.E.D. Charlton, and C.G. Jenkerson. 1979. Interim report on a comparative study of benthic algal primary productivity in the AOSERP study area. Prep. for the Alberta Oil Sands Environmental Research Program by the University of Alberta, Department of Botany. AOSERP Report 75. 107 pp.
* 76	AF 4.5.1	80-0777	Bond, W.A. and K. Machniak. 1979. An intensive study of the fish fauna of the Muskeg River watershed of northeastern Alberta. Prep. for the Alberta Oil Sands Environmental Research Program by Fisheries and Environment Canada, Freshwater Institute. AOSERP Report 76. 180 pp.

* 77	HS 20.1	80-2167	Peter C. Nichols and Associates Ltd. 1979. Overview of local economic development in the Athabasca Oil Sands region since 1961. Prep. for the Alberta Oil Sands Environmental Research Program by Peter C. Nichols & Associates Ltd. AOSERP Report 77. 221 pp.
* 78	LS 22.1.1	80-3258	Francis, J. and K. Lumbis. 1979. Habitat relationships and management of terrestrial birds in northeastern Alberta. Prep. for the Alberta Oil Sands Environmental Research Program by Canadian Wildlife Service. AOSERP Report 78. 365 pp.
79	AF 3.6.1	80-2634	Anderson, P.D., P. Spear, S. D'Appolonia, S. Perry, J. Deluca, and J. Dick. 1979. The multiple toxicity of vanadium, nickel, and phenol to fish. Prep. for the Alberta Oil Sands Environmental Research Program by Concordia University, Department of Biology. AOSERP Report 79. 109 pp.
80	HS 10.2 & HS 10.1	81-1214	Parker, J.M. and K.W. Tingley. 1980. History of the Athabasca Oil Sands region, 1890 to 1960's. Volume I: socio-economic developments. Volume II: oral history. Prep. for the Alberta Oil Sands Environmental Research Program by the University of Alberta, Boreal Institute for Northern Studies. AOSERP Report 80. 155 and 70 pp.
* 81	LS 22.1.2	80-2168	Hennan, E. and B. Munson. 1979. Species distribution and habitat relationships of waterfowl in northeastern Alberta. Prep. for Alberta Oil Sands Environmental Research Program by Canadian Wildlife Service. AOSERP Report 81. 115 pp.
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Science Library
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10th Floor
9942 - 108 Street
Edmonton, Alberta
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